Scientists Call Tune

Germs March Like Army

RIDGEFIELD, Conn. (AP) — Scientists are tuning in upon an astonishing pied piper force in life.

By using radio-type energy, they make simple forms of life obey curious commands.

Tiny one-celled animals, such as paramecia and euglena, are forced to swim only in east-west directions when exposed to one frequency. A higher frequency makes them suddenly start swimming in north-south directions.

Staphylococci bacteria exposed to another frequency line up like soldiers. So do some non-living molecules, such as particles of synthetic rubber.

CANCER KILLER?

Other frequencies scramble the heredity cells of bacteria, fruit flies and plants, so they can no longer reproduce. The pied piper force is potentially interesting as a new tool to kill cancer cells.

The force on living things was detected by Drs. John Heller, A. A. Teixeria-Pinto and John L. Cutler, all of the New England Institute for Medical Research.

The scientists don't yet know exactly why things happen as they do.

TINY LISTENERS

They do know they create an electro-magnetic force to which living organisms respond as though they carried tiny portable radios.

It's done with a high-voltage alternative current, changing frequency up to 40,000,000 times a second. Resulting energy is transmitted between two electrodes, separated slightly by air or water. The electro-magnetic field is created around and through objects being tested.

Different frequencies affect different types of living or non-living things.

Frequencies of 6,000,000 cycles make the canoe-shaped euglena stop swimming at random and head only east or west. Upping the frequency to 15,000,000 cycles puts them in a polar orbit.

FISH NEXT

Experiments are planned to see whether fish will swim as "commanded."

The scientists found some frequencies affect tiny internal elements inside a paramecium even when it cannot move.

This led to experiments producing a variety of genetic changes in fruit flies, bacteria and root tips of garlic plants by exposing them to huge doses of high-frequency field.

Chromosomes—the carriers of inherited traits — became scrambled like eggs, or underwent changes which prevented cell division or produced new types of cells.

If the force could be focussed to hit cancers, it might kill cancer cells without harming normal cells, Dr. Heller said.

IGOR STRAVINSKY
. . . shop talk

PRINCESS GRACE
. . . operation today

★ ★ ★

Mountainous Waves Batter Ocean Liners

NEW YORK (CP) — Giant waves battered two ocean liners and injured several persons aboard, it was reported Monday.

The Argentine liner Rio Tunuyan returned to New York Monday with 13 hurt, none severely.

Several passengers and crew members received minor cuts and bruises when the 81,000-ton liner Queen Mary, which reached Southampton from New York Monday, was hit by a huge wave in the Atlantic.

One night, the liner rolled 22 degrees one way and 16 degrees the other. Passengers were thrown around in cabins and rooms.

Capt. Andrew Mackellar said westerly gales followed the ship all the way from New York.

Students Pack 18 In Dauphine

NEW YORK (UPI) — Now that college boys have proved that they can cram themselves into telephone booths by the score, they have turned to new fields to conquer—tiny cars.

A total of 18 at New York University packed themselves yesterday into a Renault Dauphine.

They filled the inside of the car and the trunk at the front.

Shakespeare Texas-Style

BRISTOL, England (UPI)— A group of Texas college students will perform Shakespeare's "A Midsummer Night's Dream" in 10-gallon hats, chaps, and high-heeled boots during the international festival of university theatre here.

Names in the News

Castro's Killer 'Stinker'

MILWAUKEE — **Capt. Herman Marks,** who has risen to the post of executioner for Cuba's **Fidel Castro,** left a long criminal record behind him in the U.S.

Warden John Burke of Wisconsin state prison, where Marks served 3½ years for a morals offence, yesterday described him as "a real stinker."

★ ★ ★

MANILA — Russian composer **Igor Stravinsky** and his wife **Vera** arrived here yesterday for a two-day visit with Filipino conductors and composers.

★ ★ ★

MONACO — **Princess Grace** attended a tennis tournament and an opera performance yesterday without giving any hint that she was on the eve of an appendicitis operation in Switzerland today.

★ ★ ★

VANCOUVER — **Prof. Francis Boyes** Monday won the B.C. Teachers' Federation Ferguson Memorial Award for services to education. Director of student teaching at the UBC College of Education, he retires in June.

★ ★ ★

BANGUI, Central Africa — Wreckage of a plane which disappeared Sunday with **Premier Boganda** of the Centrafrican Republic, was spotted in a marsh Monday. There was no sign of life.

★ ★ ★

NEW YORK — **Christine Jorgensen,** 33, ex-GI who underwent a series of operations in Copenhagen to turn him into a woman, tried yesterday to get a marriage licence to wed **Howard Knox** of Waukeegan, Ill., but was stalled by puzzled lawyers.

★ ★ ★

PRINCE ALBERT — Forty-seven new Canadians stepped up to the courthouse bench yesterday, shook hands with **Prime Minister Diefenbaker** and received their citizenship papers. It was the first time he conferred citizenship on anyone on Canadian soil.

★ ★ ★

LONDON — **Robin Douglas-Home,** former suitor of **Princess Margaretha** of Sweden, will marry 18-year-old **Sandra Paul,** a model.

★ ★ ★

WASHINGTON — **President Eisenhower** returned from a five-day Easter holiday yesterday to learn his doctor wants him to take another in a warm climate where he can get some exercise.

★ ★ ★

OSSINING, N.Y. — **Edward Eckwerth,** slayer of a Yonkers school teacher, yesterday became the first man on record to turn down a chance to escape Sing Sing Prison's electric chair when he rejected a clemency hearing.

★ ★ ★

HOBE SOUND, Fla. — A cheerful **John Foster Dulles** arrived at this millionaires' retreat yesterday to recuperate from cancer treatments.

★ ★ ★

TORONTO — Private audience of the **Queen Mother** and **Princess Margaret** with **Pope John** next month isn't worrying Canadian church leaders like it is their British counterparts. One Canadian, **Rev. W. J. Gallagher,** called it just "courtesy and diplomacy."

★ ★ ★

VANCOUVER — **Steve Stavenes** has been re-elected president of the independent United Fishermen and Allied Workers' Union. Also returned were secretary-treasurer **Homer Stevens,** business agent **Alex Gordon** and first vice-president **Buck Suzuki.**

Freedom or Subservience

Apartheid Spread Native Fear In Central Africa

By KEN MacTAGGART
Second of a Series
(Special to The Colonist)

Apartheid, the racial program of South Africa, is beginning to bear bitter fruit outside the country of its origin.

While the progress of West African countries to independence, both British and French, proceeds swiftly, terror is developing in the Africans of Central and East Africa. They fear they face the fate of their fellows in the Afrikander-dominated state to the south.

This terror lies behind the current troubles in Rhodesia and Nyasaland as well as the incipient uprising in Portuguese Mozambique and Angola.

To Africans of British Central and East Africa, the future sums up thus:

Little evidence has been forthcoming that any plans for independence exist for them in British colonial policies other than pious predictions of its eventuality.

Sir Roy Welensky, prime minister of the six-year-old Federation of Rhodesia and Nyasaland, has announced that he will demand dominion status for the federation in 1960.

The federation, like South Africa, is a wealthy and booming country.

It is second only to South Africa where gold and diamonds have permitted a continuation of investment from internal sources despite the collapse of foreign investment because of racial policies.

In the face of Welensky's record of high-handed public treatment of native leaders though he is gracious when he meets them socially, the advent of dominion status spells only one thing to the Africans: The adoption of South Africa's policies.

South African newspapers forecast that the federation would adopt South African policies. Newspapers and politicians discussed the possibility of Southern Rhodesia leaving the federation to join South Africa, though few feel that South Africa, with 3,000,000 whites and 9,000,000 blacks would accept even the entire federation with only 300,000 more whites but 7,000,000 more blacks.

Though Rhodesian expatriates deny that they believe in apartheid policies embodied in law, they subscribe to the same basic philosophy.

And despite protests to the contrary, the same attitude prevails in Kenya and Tanganyika and, to a more limited degree, in Uganda. In the last three countries, the attitude is that independence must come eventually.

But then the attitude breaks down into qualifying factors, i.e., "when enough Africans become civilized," "when they become educated," etc.

Explanations as to how and when these states will be attained are vague. Educational opportunities are still limited for Africans, beyond a primitive reading and writing stage.

Meanwhile the Africans demand freedom as protection against apartheid.

NOW SHOWING
"ROONEY"
Here is a true Irish comedy for the Easter season, by J. Arthur Rank. It is as Irish as the Blarney and as funny as they come. It is about an Irish dustman (garbage collector) and his many sentimental landladies. Comedy that glows with Irish warmth, wit and humor. John Gregson, Muriel Barlow, Barry Fitzgerald. Also—News and a half-hour Disney "The Alaskan Sled Dog." An excellent show.
Doors 6.30
Complete programs 6.45 and 8.47
Feature 7.20 and 9.22
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In CinemaScope and Color
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V.F.S.C. 11.00-1.00 p.m.
Public Skating 2.00-4.00 p.m.
Public Skating 8.00-10.00 p.m.
WEDNESDAY, APRIL 1
Patch Session 9.30-11.00 p.m.
V.F.S.C. 11.00-1.00 p.m.
Public Skating 2.00-4.00 p.m.
Grand Ole Opry 8 p.m.

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BLUE GRASS BOYS
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